







ALTERNATOR FUSE REPLACEMENT

Bulletin Type:	TSB	Publication Date:	December 2023
Bulletin #(s):	23-123	Make(s):	Jayco - Entegra
Job Code(s):	9803595	Model(s):	Terrain (19Y) Solstice LI (21BL) Swift LI (20AL, 20DL, 20TL) Launch (19Y) Expanse LI (21BL) Ethos LI (20AL, 20DL, 20TL)
Flat Rate(s):	9803595 .40 HR Alternator Fuse Inspection and Replacement	Model Year(s):	2021-2024

Incident:	Replace 300A MRBF Fuse with a 200A MRBF Fuse
Affected Units:	2021-2024 Jayco Terrain, Solstice LI, Swift LI; 2021-2024 Entegra Coach Launch, Expanse LI, Ethos LI with renogy 48V Lithium system
Parts List:	1 FUSE, 200A MRBF
Misc. Tools & Supplies:	Screwgun with Square Bit Ratchet with 13MM Socket

The following symbols are the safety alert symbols. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

	CAUTION	
Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.		
	WARNING	
Indicates a potentially hazardous situation that, if not avoided, may result in death or serious injury.		

ALTERNATOR FUSE REPLACEMENT INSTRUCTIONS



WARNING



- ❑ DO NOT touch any terminals or connectors unless all charging sources have been disconnected.
- ❑ Please make sure any battery charger or charge controller has been disconnected before working on the battery.



CAUTION



- ❑ DO NOT wear jewelry or other metal objects when working on or around the battery.

1. Power down the lithium battery system.
 - A. Verify all charging sources have been disconnected:
 - i. Alternator
 - ii. Shore Power
 - iii. Rooftop Solar – disconnect near battery in the 'OFF' position
 - iv. Side Solar
 - B. Turn off the 12V Master Disconnect (Main Power) located near the rear of the sliding door.
 - C. Turn off the Inverter by pushing button on Inverter remote switch.
 - D. Press and release the Self-Locking Battery Switch. The button will be flush in the 'OFF' position.
 - E. Review the Samkoon Battery Screen to ensure that screen is off.



2. Remove components necessary to gain access to the fuse block. The removal procedure will be dependent by floor plan.
 - A. Sprinter 19Y - Remove all screw retainer covers and fasteners from the lower ABS panel access panel (Figure 1) to provide access to the battery equipment shelf (Figure 2).





Fig. 2

- B. Promaster 20TL – With a screwgun and square bit, remove the bed lid assembly with bed mechanism. (Figure 3)



Fig. 3

- C. Promaster 20TL – With a screwgun and square bit, remove the bed lid assembly with bed mechanism. (Figure 4)



Fig. 4

- D. Ford Transit 21BL – remove the cushion from the driver side and remove the jump seat top plywood. (Figure 5)

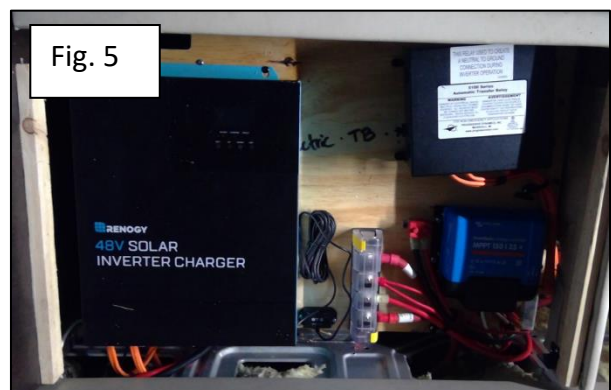


Fig. 5

3. Replace the 300A Fuse with 200A Fuse (Figure 6)
 - A. Remove the fuse block cover.
 - B. Using a ratchet with 13mm socket, remove the nut from alternator connection.
 - C. Remove 300A Fuse and replace with 200A Fuse.
 - D. Re-install the alternator cable connection and secure with the nut previously removed.

Torque = 100 IN/LBS

 - E. Re-install the fuse block cover.

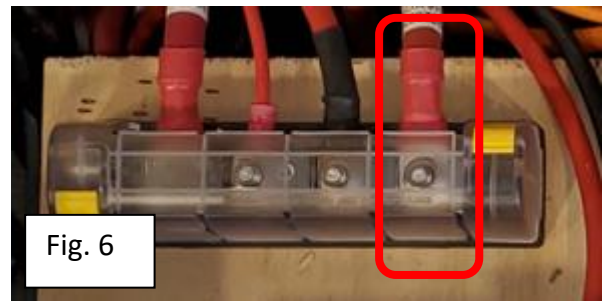
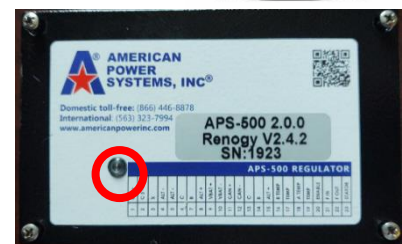


Fig. 6

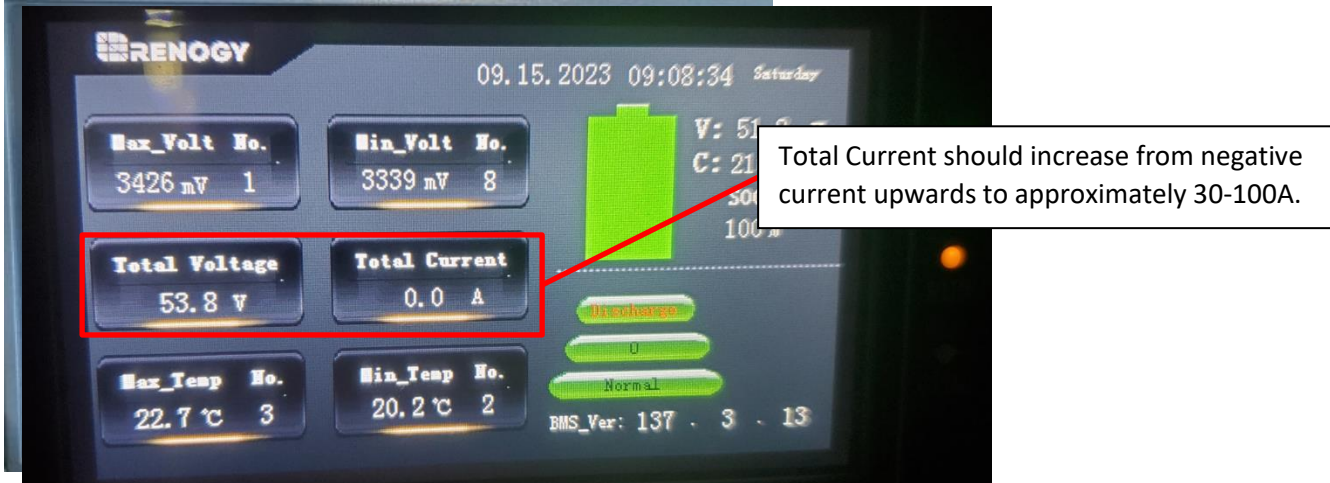
4. Power on the Lithium System
 - A. Verify all charging sources are disconnected:
 - i. Alternator
 - ii. Shore Power
 - iii. Rooftop Solar – disconnect near battery in the 'OFF' position
 - iv. Side Solar



- B. Turning on the lithium battery: Turn battery on with the self-locking switch and self-resetting switch
 - i. Press and release the self-locking switch (typically installed behind an access panel near the lithium battery)
 - ii. Next press and hold the self-resetting switch (typically installed overhead cabinet near Firefly touchscreen) for approximately 5-10 seconds to turn on the battery. There will be a series of clicks count to 5 after the last one.
- C. Turn on Inverter by pushing button on Inverter remote switch. Green light will turn on the remote switch when inverter is on. Turn off inverter when not charging by shore power or using 120V outputs (outlets and Timberline Heater) for short storage to preserve battery SOC%. Leaving the inverter ON when the system is not in use can result in a 15-20% loss in SOC per day.
- D. To turn on 12V power, press and release the momentary switch located near the rear of the sliding door. Note that the red light by switch is illuminated when the 12V power is active. To turn off the 12V power, press and release the switch again and the red light by switch will turn off.
- E. Verify Alternator charging source
 - i. The APS-500 indicator light should be flashing an Orange light indicating it is synced with the battery BMS.
 - ii. Start the vehicle and verify that the Total Current increases on the Samkoon screen.
 1. Press and hold the gas pedal at approximately 1500RPM.



2. Review the Samkoon screen Total Current. Dependent on the Total Voltage, the Total Current can increase upwards to approximately 30-100A.



5. Re-install previously removed components to access the battery.

Jayco's sole obligation under our limited warranty is to repair or replace defective materials and/or workmanship deemed our responsibility as determined by Jayco in our sole discretion. Jayco reserves the right to use new and/or remanufactured parts or materials of similar quality to complete any work, and to make parts and/or design changes as appropriate without notice to anyone. Jayco designs and/or materials changes are done without obligation to incorporate such changes in previously manufactured product. Jayco makes every reasonable effort to ensure field remedies will not adversely affect performance and/or safety of the unit. This field remedy is not intended to extend to future performance of this RV, or any of its materials, components or parts beyond the standard warranty period. The RV owner's obligation to notify Jayco, or one of its independent, authorized dealers, of a claimed defect does not modify any obligation placed on the RV owner to contact Jayco directly when attempting to pursue remedies under state or federal law.

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